

# The College of Pharmacy

Winter 2014



South Dakota State University





## DEAR FRIENDS

### Greetings

It is with great pride that we present this special issue of our magazine commemorating the 125-year history of pharmacy education at South Dakota State University. From the work of Professor James Shepard, author of the first pharmacy curriculum at South Dakota State, to the work of our current faculty and staff, many have contributed to our success as a college making it a tremendous source of pride for our university and an exemplar of academic excellence.

Although much has changed over the course of the past 125 years, the “inner fabric” of the college we are today is the strong foundation built by those before us. In that regard, the Sir Isaac Newton quote “If I have seen further it is by standing on the shoulders of giants” certainly seems fitting. On behalf of all at the college today, I would like to say “thank you” to the giants of our historic past. To the college’s former administrators, faculty, staff and students—we are grateful!

Backed by a strong history, we stand poised to embrace the future. Currently, along with College of Nursing Dean Nancy Fahrenwald, I am co-chairing a task force at the university focusing on the future of health science programs and research. Our 15-member group is considering interprofessional education opportunities, exploring new and emerging academic health programs, evaluating strategies for student recruitment into the health science disciplines, and seeking opportunities for collaboration. In addition, the task force is reviewing interdisciplinary health and wellness research possibilities and studying ways to increase our overall operating efficiency. This is truly exciting work that will facilitate achievement of the goals outlined in our strategic plan, Impact 2018.

As we flip the calendar to 2014, those of us at the College of Pharmacy look forward to the road ahead with enthusiasm. This is truly a great time to be a “Jackrabbit.” Best wishes for the New Year!

Warm regards,

*Dennis D. Hedge, Pharm.D.  
Dean and Professor  
SDSU College of Pharmacy*

## About the cover



These gentlemen from the Class of 1894 would find their pharmacy education much different today. The 125th anniversary of pharmacy education at the college provides a good opportunity to look at some of the milestones and lighter moments since 1888.

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# The College of Pharmacy

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## South Dakota State University

Dean: Dennis Hedge  
Associate Dean: Jane Mort  
Assistant Dean: Dan Hansen  
Head of Pharmacy Practice: James Clem  
Head of Pharmaceutical Sciences: Om Perumal  
Co-editor: Dan Hansen  
Co-editor: Andrea Kieckhefer  
Assignment editor: Matt Schmidt  
Design: Virginia Coudron

Writers and photographers: Dave Graves, Karissa Kuhle, Kyle Johnson, Eric Landwehr, Madelin Mack, Matt Schmidt  
Publications Editor: Andrea Kieckhefer

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# 125

## YEAR HISTORY OF PHARMACY



### PHARMIC. DRUGGIST. APOTHECARY.

*These terms that were as common as the corner drug store are now outdated. In fact, much of what defines pharmacy today bears little resemblance to what was learned by the first class of pharmacy students when they opened their books 125 years ago at Dakota Agricultural College.*

*As the college observes its quasiquicentennial this school year, this article explores some of the milestones and memories.*





## 1888 (THE FIRST CLASS) – 1940 (END OF DEAN SERLES' TERM)

Pharmacy was among the earliest curriculum additions to what is now South Dakota State University. The Agricultural College began classes Sept. 24, 1884. Pharmacy first appeared in the Fourth Annual Catalog (1887-88) and was listed under courses of Agricultural and Domestic Economy.

The fact that people were being educated as pharmacists is noteworthy.

Before action by the 1887 Territorial Legislature, no laws governed the practice of pharmacy. The new law stated only registered pharmacists could retail, compound or dispense drugs, medicines and poisons.

In 1887-88, taking pharmacy meant taking the course in pharmacy.

The catalog description: "In the Course in Pharmacy a good deal of work is required in the laboratory in learning how to weigh and measure, to identify drugs, to prepare tinctures and infusions, to detect poisons and adulterations, and to put up prescriptions.

"It is believed that those who finish this course will be fitted to become drug clerks."

### From one course to two years

Well, it didn't take long to upgrade the curriculum. In 1888-89, pharmacy was a two-year course in the chemistry department under Professor James H. Shepard. There were 11 in the first class taking courses like Latin, rhetoric and English history.

All part of a well-rounded education that also included physiology, material medica and toxicology.

Shepard taught the pharmacy offerings in a classroom and a lab on the third floor of Old Central (1883), which was the first building on campus and still educating students into the '60s. It was torn down in 1962.

Pharmacy headquarters were moved to the first floor of the Administration Building in 1918. Though the location within the building was to shift several times, pharmacy was taught there until a new building opened in January 1981.

In 1890, the first group of seven graduates received certificates of completion for the two-year course. Given that there were less than 200 total students at the school in the 19th century's last decade, the number of pharmacy students graduating was surprisingly high.

### Two-year program ends

In the following years, graduation numbers hit four in 1891, including the first female; seven in 1892, with two females; eight in 1893; and in 1894 there were 11, a mark that wouldn't be reached again until 1921.

Graduation numbers surged in 1923, '24 and '25, when there were 25, 25 and 20 grads, respectively.

Except for another unusual jump to 25 graduates in 1939, the university wouldn't graduate that many from pharmacy school again until 1942. A book produced for the 100th year of the pharmacy school noted that 1924 was the last year for the two-year course.

Though the four-year bachelor's degree was first offered as an option in 1898, the two-year course was the common choice.

In fact, Clark T. Eidsmoe, the college's first distinguished alumnus, received a Ph. G. (pharmacy graduate) degree when he completed the two-year course in 1913 at age 19.

A three-year option was first offered in 1892-93 with the first graduates in 1895. Eidsmoe got his three-year degree in 1928. A year later he got his four-year degree and began a 37-year career on the State faculty. He earned his master's degree in 1931.

In 1940 he was promoted to professor and department head. He retired in 1964 and was granted emeritus status.

### New pharmacy departments, nursing division

During the 1930s, the Division of Pharmacy (as it was known then) formed three new departments. Joining the Department of Pharmacy, headed by Eidsmoe, were the departments of pharmaceutical chemistry, headed by Earl Serles; pharmacology, headed by Floyd LeBlanc, and pharmacognosy, headed by David Hiner. In addition to serving as department head, Serles also was the dean, a position he held from 1923 to 1940.

In 1935, the department of nursing was established within the division of pharmacy. Created at the request of the State Nurses' Association, the department operated independent of pharmacy with its own faculty and initially was a one-year diploma program.

In 1956, nursing became a division of its own and in 1957 moved out of the Administration Building and into Solberg Engineering Hall.

## 1940 – 1964 (FLOYD LEBLANC'S TERM AS DEAN)

Floyd LeBlanc, a 1922 State grad, was appointed acting dean in 1940 when Earl Serles took a position at the University of Illinois. LeBlanc, who had joined the faculty in 1922 as a graduate assistant, would continue as dean until retiring in 1964 and being granted emeritus status.

His longevity as dean (24 years) and on the faculty (42 years) is unmatched in college history.

LeBlanc's intellectual abilities were unquestioned. When taking the test in 1922 to become a registered pharmacist, he placed second in the South Dakota exam and first in the Minnesota exam. That was after completing the two-year course.





Professor James H. Shepard



Clark T. Eidsmoe



Pharmacy gardens located on the site of the Printing and Journalism Building (Yeager Hall)

In 1924, he completed a four-year degree in chemistry, was appointed instructor and became the first State student to win the Lehn and Fink Gold Medal for advancement in pharmaceutical science.

During his deanship, the bionucleonics laboratory was established (1953), the college switched to a five-year curriculum (1960) and construction began on Shepard Hall, the new science building with lab space for pharmacy (1963).

Perhaps most notable during LeBlanc's tenure was the growth in enrollment. In 1940, there were 16 graduates. In 1963, there were 50.

During the war years, there was a skeleton crew of students and faculty. In 1945, the graduation class could fit on a tandem bicycle with no one on the handlebars. But by 1959 there were 71 graduates, including 12 females, the most in school history to that point.

#### Grads remember Omodt's tests

Dr. Richard Mulder, a 1960 graduate who would spend most of his career as a medical doctor, said LeBlanc "was a peach of a guy." He noted, "very quickly we had a one-on-one relationship" with faculty.

He particularly recalls Gary Omodt, who served on the faculty from 1958 to 1989.

"Dr. Omodt was a genius. He was smarter than smart," said Mulder, who retired 1 ½ years ago after practicing medicine in Ivanhoe, Minn., since 1969. He said Omodt

was at State "the first year I was in pharmacy school and the last year my son (Ricky '89) was there."

Omodt, whose academic interest was medicinal chemistry, specialized in difficult tests.

Mulder recalls a surprise quiz in which one point was awarded for a correct answer and one subtracted for a wrong answer. "One test the average score was minus 76," Mulder said.

Terry Casey, another 1960 graduate, said Omodt "was outstanding. I remember Dr. Omodt's tests. He didn't have tests very often. Maybe four tests in a quarter. They were really scary. Fortunately, he used a curve system, so we all survived.

"Pharmacy was such a tremendous amount of memorization. Organic medicinals—interactions, diagrams."

Mulder and Casey both remember a lot of group study.

Mulder recalled that his roommate as a junior and senior was a pharmacy student who enjoyed drawing. "He would draw structures of chemistry formulas. He'd be drawing all day, and I'd be typing all day. We had the best set of notes in the college," Mulder said.

#### Old North, Old Central still served college

Quality instructors helped offset a deficiency in facilities.

Old North and Old Central were still in use when Mulder and Casey were students.

Casey said, "I remember walking up the old wooden stairs of Old North and Old Central. I had bacteriology in the basement of Old Central. The classrooms were in a lab setting with ancient fixtures.

"I remember the dreariness of that setting. I'm sure it went back to the teens at the latest," Casey recalls.

He also remembers having classes in a 1936 building behind the Administration Building. The building, now called the Communications Center, was new when Gerald Boller '41 was going to school.

Boller, 94, of Highmore, recalls that students would congregate outside the Administration Building front doors for a smoke between classes. In cold weather, the smoking was done in the small area between the two sets of double doors.

A photo caption in a yearbook of that era states, "Pharmics get their lift between bells."

#### Pharmics and floats

Pharmic was the term for pharmacy students, male or female, from "day one," Casey said. Pharmacy and nonpharmacy students used the term and it was commonly found in yearbooks.

Those yearbooks also are a good source of information on another phrase commonly associated with the school—most beautiful Hobo Day float. The first Hobo Day parade was in 1912. By 1922, pharmacy students had distinguished themselves by producing fantastic floats.





Chem lab

Old Chemistry Building, pictured in 1928



Pharmacy Hobo Day float, 1922

When C. Boyd Granberg '42 was a senior, the Pharmaceutical Society's "Old Mill Stream" float in the 1941 parade was the 10th "most beautiful" winner in the past 12 years.

Granberg said, "We spent weeks building the floats. They were decorated with chicken wire and we stuffed each hole with colored napkins. We had to make little roses out of napkins and stick them in the holes in the chicken wire. The great majority (of students) took a part in that. It was a close student body."

## 1964 ("COLLEGE" OF PHARMACY BEGINS) – 1993 (END OF FIVE-YEAR PROGRAM)

In this 30-year span, the college was directed by four deans—Guilford Gross, Floyd LeBlanc (one year as acting dean), Ray Hopponen and Bernie Hietbrink.

During this period, 45 graduates received their diploma in 1965. Graduation class sizes grew in the 1970s, hitting 69 in 1977 and 1979, but slid to a low of 27 in 1983. By 1993, graduation numbers had built back to 59.

Major facility improvements were achieved in this era.

Harold Bailey, who spent 10 years on the College of Pharmacy faculty and the next 24 years in university administration, had a front-row seat to this era, and in 2011

recorded it into "A Quest for Excellence," an SDSU history book covering 1958–1985.

### The need to build

He writes, "By early 1959, it was obvious to Dr. (Hilton) Briggs (university president) that planning should be started on a new addition to the present Chemistry Building. There was a desperate need for larger laboratory space for undergraduate and graduate study, as well as graduate and faculty research.

"The Chemistry Building was built in 1929 for a maximum of 360 students. By the fall of 1959 more than 1,000 students were using the classrooms and laboratories.

"Also the Division of Pharmacy was outgrowing the space in the Administration Building that it had occupied since 1918. Therefore, part of the proposed building was to house a portion of the Division of Pharmacy.

"The Chemistry-Pharmacy Building committee was composed of Victor Webster, chemistry department head; Harold Bailey, head of the department of pharmaceutical chemistry; Kenneth Hayter, director of Physical Plant; and representatives of the architect firm, Spitznagel and Associates of Sioux Falls.

### Short funding causes switch in plans

"The proposed building, including all the necessary laboratories and offices, was planned to bid at \$1 million. When the

request was taken to the 1960 Legislature, only \$750,000 was approved for the building and equipment, so the Dairy-Bacteriology Building was built instead.

"Dr. Briggs agreed with the committee that this was not nearly enough to do what was necessary for the growing needs of the college." The building was included in the Regents budget requests for the 1961 Legislature, however, the governor eliminated that item from his budget request. A new governor, Archie Gubbrud, took office in 1961. He was immediately contacted, resulting in the 1961 Legislature appropriating \$1 million in March for the new science building.

The construction of what became known as Shepard Hall commenced March 15, 1963, and in 1964 the research and pharmaceutical chemistry labs as well as several faculty offices were moved from the Administration Building.

Bailey wrote that between 1959 and 1969, the college grew by 100 students and the Administration Building continued to house the college's administrative offices, the dispensing and pharmacognosy laboratories and classroom space.

### Report promotes another building

Bailey wrote, "This fragmentation of the college had been noted in several accreditation reports." That issue as well as generally inadequate space and lack of financial support led to the college being





Shepard Hall, built in 1929 (Replaced the Old Chemistry building)



Student in a lab of the Shepard hall addition 1967



Pharmacy lab in the Administration building



Shepard Hall addition, 1964

placed on a probationary status in 1978 by the American Council on Pharmaceutical Education, Bailey wrote.

As a result, planning was started for an addition to Shepard Hall that would accommodate all of the College of Pharmacy. Legislative approval for an addition on the south of Shepard Hall was obtained and bids let. Constructed at a cost of \$636,927, the Gross Pharmacy Building was completed in December 1980. It was named to honor Guilford Gross, a 40-year member of the College of Pharmacy.

The college then had the whole third floor of the original Shepard Hall plus the Gross addition with administrative offices, classrooms, teaching laboratories, a student study room, and other service and storage areas.

### Drug garden grew for 67 years

This era of transition also saw the end of a tradition—pharmacognosy, the study of plant life and its use for drugs.

Professor Anton Hogstad established a pharmaceutical garden in 1917 in response to a request from the U.S. Department of Agriculture that more information be created concerning the growing of drug plants at various locations in America.

The original site of the “drug garden” was just north of the old College Stores Building. In 1950, the new Printing and Journalism Building (Yeager Hall) was erected on that ground and the garden was relocated on Medary Avenue just north of the Agronomy Seed House.

It remained at that site until it was discontinued in 1984.

## 1994 (BEGINNING OF SIX-YEAR PROGRAM) – PRESENT

Growth might characterize this era — growth in student numbers, growth in facilities, growth in research and growth in learning.

In 1994, the first class entered the new six-year doctor of pharmacy (Pharm.D.) curriculum. It required a minimum of two years of preprofessional collegiate schooling and four years in the professional program.

Contrast that with the program’s initial requirement—two years of high school; and that compares with one or none in most programs at the turn of the century. State began requiring four years of high school in 1909.

The size of the class admitted into the six-year program was capped at 50, a drop from earlier in the decade. But by 2001 the class size rose to 60 students, and in 2007 the first class of 70 students entered the professional program. In 2010, the class cap grew to 80 students.

### Avera — on site of Old North, Old Central

In terms of facilities, the construction of the Avera Health and Science Center on the sites of Old North and Old Central, where Casey remembers having classes, has been a game changer.

“The new pharmacy building—to me that’s just mind boggling compared to the labs we had,” said Casey, who served on the fundraising committee for the Guilford Gross Pharmacy Building and sponsored a conference room in the Avera building.

The 144,600-square-foot Avera Health and Science Center has provided the college with new teaching space, faculty office space, instructional labs and research labs.

### Largest donation ever to SDSU

Completed in 2010, the \$51 million, three-story building has become a new landmark on campus. The pinnacle donation—\$15 million from Sioux Falls-based Avera Health—is the largest ever to SDSU. Construction began in June 2008, when the Gross Pharmacy Addition was demolished.

During construction, pharmacy offices were moved into the Barn, where the gym’s locker rooms were converted to offices.

The original 1929 Chemistry Building was torn down in 2011 after the completion of the Avera Center. Shepard Hall, which now serves as the north wing of the center, was completely remodeled into modern research labs as the final phase of the Avera project.

Avera includes seven classrooms with seating for 440 students and 62 labs for students and faculty plus support spaces.

Xiangming Guan, coordinator of research/scholarship and graduate studies in the college, says the new building has helped “to recruit and retain faculty members as well as graduate students. This facility lays down the foundation that helps lift the research in the college to a different level.”

### Creating renowned research

Before this era, SDSU pharmacy was strictly a teaching college with virtually no research.

Chandradhar Dwivedi, who retired in June 2013, recalls, “When I came in (1987) there





Student in a lab of old Shepard Hall



Classroom in Shepard Hall addition



Guilford Gross



Guilford C. Gross Pharmacy Building added to Shepard Hall, 1980

was absolutely no research in the (pharmaceutical sciences) department and in the college. Dean (Bernie) Hietbrink said he would support me in establishing a research program.”

Hietbrink and successors Danny Lattin, Brian Kaatz and Dennis Hedge all did what they could to build the college’s research infrastructure.

As a result, today the department has:

- A Ph.D. program with 14 graduates and more in the pipeline;
- Nineteen students enrolled in the research-heavy Ph.D. program;
- A modern research facility with 12 labs dedicated specifically to faculty and graduate-student research;
- A record of receiving nationally competitive grants.
- Been able to attract postdoctoral students to assist faculty in research and teaching labs.

Dwivedi is particularly proud of the Ph.D. program, which formally began in fall 2007 and operates at capacity. “We have excellent retention, graduation and placement. We are still building recognition, but people know us,” Dwivedi said.

Part of that is because graduates are working at universities and medical systems throughout America and beyond.

One, however, stayed right here at home. Teresa Seefeldt, originally from Clark, got her Pharm.D. in 2004 and stayed here to earn her Ph.D. in 2007. Now, the associate professor of pharmaceutical sciences teaches pharmacology at her alma mater.

She also does research on oxidative stress in cardiovascular disease with a focus on thiol regulation.

#### **A guiding foundation amidst constant change**

Seefeldt recalls, “When I started doing undergraduate research in 2002, we had half the number of research labs for individual faculty, and we had very limited space for shared equipment and facilities. Today, the expansion of the physical facilities has allowed us to add equipment to our research infrastructure and to take additional graduate students and postdocs.”

In terms of teaching, students are gaining additional exposure to pharmacy practice earlier in the curriculum, Seefeldt said.

She adds, “The improvements in physical facilities also have changed what we can do in terms of teaching. In particular, the

pharmacy practice laboratory has been a major improvement. The facilities allow for more experiences in areas such as patient education and sterile products preparation.

“It also facilitates our interprofessional education initiatives. The use of simulation also is an improvement. We are now using high-fidelity simulation in courses and in interprofessional education.”

But through decades of development and change, the words in the 1907 Jackrabbit yearbook from pharmacy professor Bower T. Whitehead still ring true: “The object of this department is not alone to fit a young man or woman to pass the state board examinations, but to give him the foundation for intelligent, successful work in the store ...

“Pharmacy is a profession, and the better educated the pharmacist is, the better able he is to meet other professional men on an equal footing.”

*Dave Graves*

*Editor’s note: In addition to direct interviews, information for this article was taken from “A Centennial Celebration,” published by the college in 1988; Harold Bailey’s “A Quest for Excellence,” published in 2011; past issues of this publication, yearbooks and other historical college resources.*



Avera Health and Science Center, 2010





## LARGEST PHARMACY MUSEUM IN COLORADO OURAY ALCHEMIST

SDSU alumnus Curtis Haggar '71 has always believed that “you have to chase your dream — even if it takes you an entire lifetime.”

His dream materialized when he was fresh out of college working as a pharmacy intern at a retail pharmacy in Denver. An elderly woman came into the store, set an old corked bottle on the counter and asked Haggar to mix up a refill. He complied but asked to keep the old bottle — the first piece of what was to become his pharmacy collection. It was the origin of his dream that led to the Ouray Alchemist pharmacy museum.

### The beginnings of a dream

After graduating from SDSU, Haggar couldn't find an internship position in

South Dakota, so he planned to hitchhike to Orlando, Fla., to take a position with Walgreen's. However, his life took a different turn when he detoured through Denver.

“After growing up on the rolling plains of South Dakota, the Rocky Mountains made quite an impression,” said Haggar. “I felt that this was where I wanted to be.” He took \$100, half of the travel money his father had given him, and bought a '59 station wagon that became his home for a week until he got in touch with a high school buddy to room with. Meanwhile, Haggar began his work as an intern and met the little old lady with the little old bottle, Haggar's first collectible, at Sam Frank's Drugstore.

In Haggar's own words: “One is one. Two is a pair. Three is a collection.” Once the idea was in his head, Haggar's collecting increased exponentially. His hobby started at the very end of an era of corner drugstores, giving him fantastic opportunities to acquire and preserve pieces of pharmacy history and culture.

“I was very, very lucky to take in the knowledge and know-how from the old timers,” Haggar said. Pharmacy was at a crossroads, transitioning from the old days of recipes and compounding to the modern times of computers, manufactured drugs and insurance claims.

Years passed and Haggar continued collecting. In 1993, he traveled to Ouray, Colo., to purchase some bottles from a retiring pharmacist. Haggar took a look



around at the picturesque mountain town, affectionately called “Little Switzerland,” and thought it would be a great place to live. It was there he decided to build his museum.

### It's an art project

Haggar started construction from the ground up on what would become the Ouray Alchemist in July 2009.

“I just decided if I don’t do this now, I never will,” he said. “The economy wasn’t great. People were selling. I did my heaviest buying when the building was under construction.” Haggar did some of the initial design sketches himself based on a photo he took of a Russian Orthodox church in Kodiak, Alaska, in 1998. The church was an inspiration for the overall design of the Alchemist building. “I built the largest pharmacy museum in the state of Colorado,” said Haggar. “It’s an art project.”

Construction was completed in about a year. Some of the fixtures in the museum came from the historic Aspen Drug in Aspen, Colo., which was open from 1888-2002. The store was closing when Haggar visited to inquire about purchasing some pieces. He found another treasure behind the pharmacy counter—his future wife, Nancy. However, Haggar didn’t leave that encounter with all the fixtures. The owner was asking \$65,000 for the 1888 original Victorian fixtures, which consisted of three wall panels each 20 feet long. Haggar countered with an offer of \$3,000, knowing that it would cost at least \$30,000 to restore all of it.

“The owner said he could get what he wanted for them from someone else, so I had to walk away,” Haggar said. “Fast forward five years later—it was a Sunday morning—my wife and I were wondering whether if those fixtures had ever sold. We called the owner up and it turned out that the wall was dismantled and stored in an empty semitrailer. We ended up purchasing them for \$2,000.”

Haggar spent \$40,000 to painstakingly restore the intricate wooden fixtures, one of which would become the entrance to the pharmacy museum.

### Haggar's 'holy grails'

In addition to these fixtures and the 1920s prescription counter from Aspen Drug, Haggar has four pieces in his collection that he calls his “holy grails:”

- an 1880s marble soda fountain that came from a basement in North Carolina,
- a pristine 1880 porcelain leech jar,
- a 1910 cigar store Indian maiden with the original paint that has never been kept outdoors and
- a 1907 original oil painting of President Theodore Roosevelt, founder of the Food and Drug Act of 1906.

Visitors can see Haggar’s holy grails and the rest of the collection almost any day of the year between 10 a.m. and 6



p.m. Patrons especially seem to enjoy Haggar’s guided tours, on which he displays a clear passion for pharmacy history.

“It’s just amazing,” Haggar said. “In the 19th century, you could walk into a pharmacy and buy opium right over the counter. As we entered the 20th century, 90 percent of the country was addicted to cocaine and opium, and the life expectancy was only 40 years.”

### Visitors

Haggar has given tours to a variety of crowds. Colorado Mesa State University brought their pharmacology students to Ouray to view the museum. A British man named Gerald Hull, who has his

Ph.D. in poetry from the University of Wales, was so struck by his trip to the Ouray Alchemist that he wrote a poem titled “A Certificate of Practice” inspired by the museum. It is scheduled to be published in 2014.

One day a photo fell out of a pigeonhole from Haggar’s rolltop desk. It was a snapshot of himself, his father and Dean of Pharmacy Bernard Hietbrink from Haggar’s days at SDSU. Haggar placed the photo back in the desk and didn’t think more of it.

“I’d had that photo since I graduated college. I hadn’t seen Dr. Hietbrink in 42 years, and the following day he walked through the front door of the museum,” said Haggar.

Hietbrink was traveling through Ouray on vacation. He had heard about the pharmacy collection and stopped by to see it himself, not knowing he’d find a proud SDSU pharmacy graduate behind the counter. “I still have roots in South Dakota,” said Haggar. “I always go back about every two years.”

### Preserving pharmacy history

Haggar promises that, thanks to “clean air, clean water and a positive attitude,” he will live to be at least 100 years of age. “At age 100, I’m going to look out the windows at the surrounding mountains and think of all the wonderful people I’ve met and the experiences I’ve had. I’m proud of what I’ve accomplished. My intention is to save the museum for future generations so they may romance the history as I have. I’ll leave it to the people. It’s about preserving.”

*Madelin Mack*

**(Photo of front of museum):** The Ouray Alchemist, Colorado’s largest pharmacy museum, was built by SDSU pharmacy grad Curtis Haggar, ’71. The museum houses Haggar’s extensive collection of pharmaceutical artifacts, some dating back as far as 350 B.C.

**(Leech jar):** This pristine porcelain leech jar dates back to the 1880s. Haggar is proud to be preserving pharmacy history and culture through his operation of the Ouray Alchemist museum.

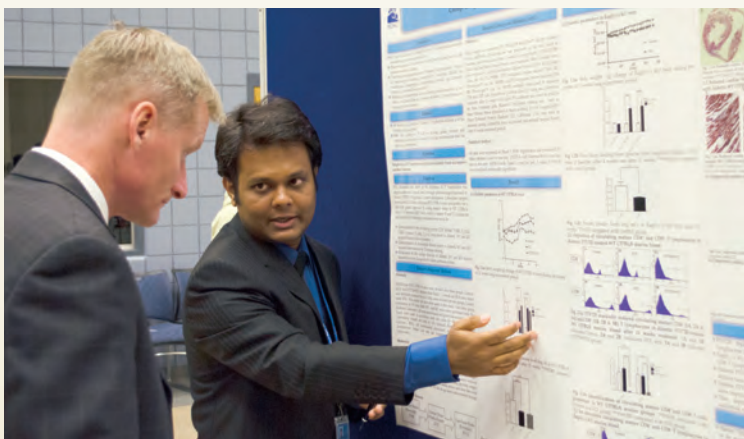
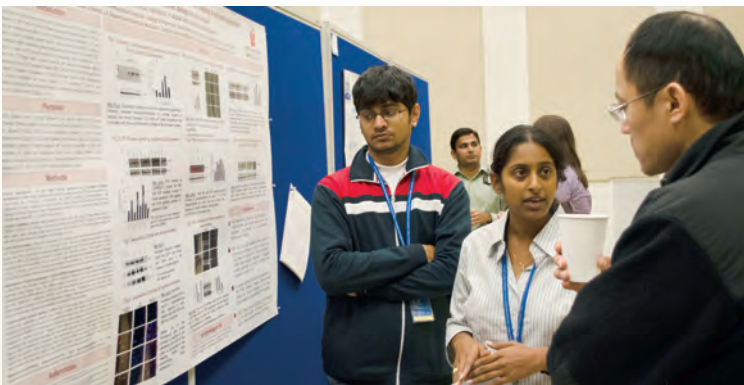


## Raebel brings medical safety expertise to convocation

“Her presentation gave students added insight into the important field of clinical pharmacy research. Clinical research is vital

One such student was Kirre Wold, who is in her third year in the professional pharmacy program. She said it was

—Marsha Raebel





From left, Dean Dennis Hedge, Marsha Raebel, department head Jim Clem and research coordinator Xiangming Guan gather after Raebel's presentation at the 23rd annual Pharmacy Research Presentations and Keo Glidden Smith Convocation.



fascinating to learn how expansive the Mini-Sentinel program is and the benefits it provides patients.

"Dr. Raebel is obviously very passionate about medication safety and her experience with the Mini-Sentinel program will help uncover important new medication adverse-event connections.

"Millions of patients will be able to use this system to report adverse events, procedures and outcomes. It will be interesting to see if new correlations between medications and adverse events are flagged with more expansive and easier reporting."

Prior to her presentation, Raebel reviewed poster presentations related to pharmaceutical and biomedical research conducted by graduate students, undergraduates and postdoctoral fellows.

She came away amazed with the range of pharmaceutical sciences research that takes place at the college.

"I was impressed with the graduate students' abilities to succinctly describe the work they are doing," she said. "As a clinical researcher and not a laboratory-based researcher, I could quickly grasp the intent of their research, the potential implications of their findings and how their results might fit into the larger picture of health-related research overall."

Also impressive for Raebel was the state of the SDSU landscape because her last visit to campus was 2004 to receive the distinguished alumnus award.

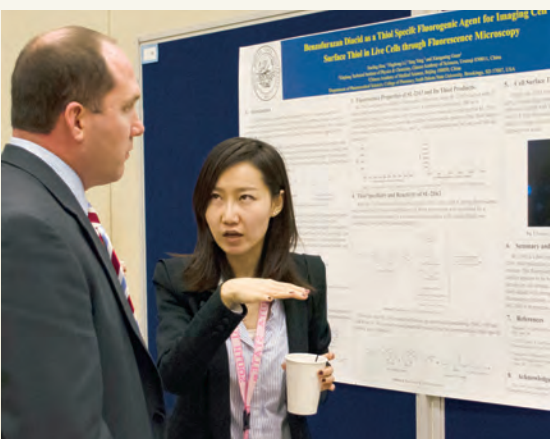
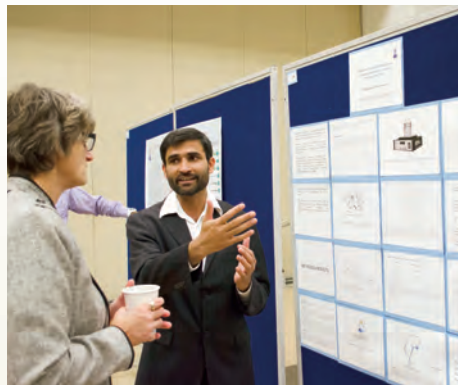
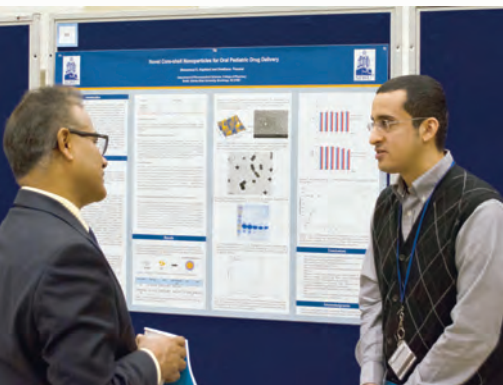
"I'm surprised with how much the physical campus has changed, in particular all the new buildings currently underway and the ones that have been completed," she said,

making specific reference to the Avera Health and Science Center.

"It's really an excellent teaching and research facility. In talking with the pharmacy faculty, I'm impressed with their commitment to providing high quality, broad-based educational experiences for the Pharm.D. students.

"It was also interesting to hear about the types and locations of their rotations and the residency options that the students have through SDSU."

*Kyle Johnson*



At left: Various students explain their research posters.





## Monzurul Roni recognized as Graduate Student of the Year

**N**ot just any student can work in Shafiqur Rahman's laboratory in the Avera Health and Science Center.

The associate professor of pharmaceutical sciences has certain requirements that need to be met.

"Upon the nomination and review process, the department selects one student in their final year of the program who completes all the coursework and also shows very good productivity in research," he said. "In addition to that, the candidate should be a good person who has a desire to do research in a team environment."

Monzurul Roni met those qualities and more and those are the reasons why he was selected as the Graduate Student of the Year. The award is given to a student who is working toward a Ph.D. in pharmaceutical sciences. Two other students from different laboratories previously received the award.

"I'm really honored," said Roni. "I was not actually expecting it because there were several deserving candidates in our department."

"I want to share the credit for this award with my mentor (Rahman) and fellow graduate students who are supportive of my

research. Professionally, this award is a great motivation to deliver productive research efforts in the laboratory."

Roni earned both a bachelor's degree (2003) and a master's degree (2007) in pharmacy from the University of Dhaka in Bangladesh.

After serving as an instructor for two years at Dhaka, Roni sought to advance his profession and began exploring educational opportunities overseas.

"I was motivated to pursue my Ph.D. here because the United States offers the best quality of research training," he said.

After graduating in spring 2014, Roni plans to find a postdoctoral position. When that's done, "I will be looking for a faculty position in pharmaceutical sciences."

Roni's work in the lab involves a project that has been front and center for Rahman during the last 15 years. He has been researching what causes people to develop major depression and how depressed people become addicted to things like alcohol and smoking tobacco.

"We are trying to understand how neurotransmitter receptor proteins in the brain control these two conditions," said

Rahman, who cites genetic and environmental settings as the two main reasons for psychiatric disorders and addiction.

"It's a gene that runs in the family and also it's the environment in which he or she grows up. We try to target the specific brain protein and downstream biological mechanisms to develop new medications to help people with these afflictions."

According to Roni, his time in Rahman's lab has been the most productive of his academic career.

"The training and guidance I have received from Dr. Rahman goes beyond my expectations," he said, citing neuropharmacology knowledge, research techniques, scientific communication skills, data analysis and interpretation, and critical thinking. "The amount of time he spends mentoring graduate students is really amazing."

*Kyle Johnson*

Shafiqur Rahman, left, confers with grad student Monzurul Roni.





In honor of October being national pharmacy month, the South Dakota Pharmacists Association donated money to the SDSU American Pharmacists Association-Academy of Student Pharmacists (APhA-ASP) for two billboards, one in Sioux Falls and one in Rapid City.

The students chose various settings to advocate what pharmacists can do. They included: a hospital setting, a blood pressure screening, and a medication therapy management counseling scene.

Involved with organizing this project were: Leah Eckstein, APhA-ASP President-Elect; Amber Olson, SDPhA Liaison; Mackenzie Byron, APhA-ASP Professional Activities Committee Co-Chair; and Briana Reck, APhA-ASP Professional Activities Committee Co-Chair.

Pictured on the billboard are: (from left): Olson (pharmacist) and Josh Satlak (patient) in the hospital setting (left photo); Megan Sattizahn (patient) and Eckstein (pharmacist) in the blood pressure screening (middle photo), and Keith Gunn (pharmacist) and Sungha Kim (patient) in the MTM counseling scene (right photo).



## Kappa Psi honors

### Two Kappa Psi members hold national posts

Kappa Psi members **Eric Grocott** and **Megan Bechen** were appointed to national committees of the world's largest and oldest pharmacy fraternity by Grand Regent Eric Gupta at its Grand Council Convention July 30–Aug. 3 in St. Pete's Beach, Fla.

Grocott, a P4 student from Montrose, will represent the Northern Plains Province on the Graduate Development Committee. It is tasked with developing recommendations to improve communications with brothers that have graduated.

Bechen, a P4 student from Winfred, will be the Northern Plains Province representative on the Pledge Program Development Committee, which develops recommendations for chapters to utilize during the pledging process with potential new members.

Bechen also co-chairs the Province's Philanthropy Committee, which recommends potential charities to receive province donations.

Gary Van Riper will continue as co-chair of the Grand Council Deputy Development Committee with Deanna McDanel of the University of Iowa.



# Scholarships

Presented to P1, P2, P3, and P4 students at the Sept. 27, 2013, scholarship luncheon

**Steven M. Aamot and Robbie D. Aamot Scholarship in Pharmacy:**  
Kelsey Aker

**Aberdeen District Scholarship in Pharmacy:**  
Chelsy Podoll

**Oliver G. and Nelle K. Anderson Scholarship:**  
Chelsy Podoll

**James A. and Nancy E. Armbruster Scholarship in Support of the Jackrabbit Guarantee:**  
Bethany Saffert

**Dr. Harold S. Bailey and Barbara A. Bailey Scholarship in Support of the Jackrabbit Guarantee:**  
Chelsea Berg

**Jack M. Bailey Scholarship:**  
Traci Eilers

**Brad and Dawn Bargmann Scholarship in Support of the Jackrabbit Guarantee:**  
Terra Klima

**Tom and Linda Bartholomew Scholarship in the College of Pharmacy at South Dakota State University:**  
Sarah Dady

**Jean Bibby Memorial Pharmacy Scholarship:**  
Cassandra Lukkes

**Joye Ann Billow Kappa Epsilon Leadership Award:**  
Ashley Larson

**Darrel and Peggy Bjornson Scholarship in Pharmacy:**  
Kaitlyn Jude

**Black Hills District (SDPHA) Scholarship:**  
Hannah Hepperd

**Marlin R. and Linda J. Brozik Scholarship in Support of the Jackrabbit Guarantee:**  
Brittany Williams

**Class of 1957 Scholarship in Pharmacy:**  
Cassie Heisinger

**College of Pharmacy Phonathon Scholarships:**

Cody Baker  
Nicholas Goodhope  
Jonathan Koskela  
Molly Mack  
Jacquelyn Miles  
Heather Nelson  
Alexander Olinger  
Jamie O'Hara  
Rachel Pavelko  
Jenna Ryan  
Joshua Satlak  
Carlie Soper  
Kassandra Stueve  
Brittany Sykora  
Emily Van Klompenburg

**Crazy Horse Memorial Scholarship in Honor of Ted and Bill Hustead:**  
Cody Maxwelld

**Lloyd Daniels and Helen Daniels Bader Scholarships in Pharmacy:**  
Brittney Dandurand  
Haleigh Hunsucker

**Bill R. Darrah Scholarship in Support of the Jackrabbit Guarantee:**  
Margit Hansing

**Bill R. Darrah Scholarship at the College of Pharmacy at South Dakota State University:**  
Katherine Elder

**Mary M. Pullman Dodge Scholarship in Support of the Jackrabbit Guarantee:**  
Katherine Tirney

**Richard J. Duffner Memorial Scholarship:**  
Brad Rotert

**Pundit Abhaya Narayan Dwivedi Scholarship in Pharmacology:**  
Ashley Larson

**E. Keith Edgerton Memorial Scholarship in Support of the Jackrabbit Guarantee:**  
Annessa Feder

**Clark T. and Alice H. Eidsmoe Scholarships:**  
Daniel Cox  
Hilary Schilla

**Fleeger/Lovely Scholarship in Pharmacy:**  
John Daniel

**Marvin E. Foss Scholarship:**  
Elizabeth Koenig

**Lawrence and Winnibert Bradshaw France Memorial Scholarship:**  
Laura Bakker

**Milton and Elaine Freier Scholarship:**  
Pooja Patel

**Shirley and Lyle Glascock Pharmacy Scholarship:**  
Brianna Jansma

**Gross Scholarship in Pharmacy:**  
Stevie Wessel

**Sandra Grover Memorial Scholarship:**  
Jenna Ryan

**Dorothy Nelson Haas Memorial Scholarship in Support of the Jackrabbit Guarantee:**  
Courtney Donnelly

**Daniel J. Hansen and Jessica L. Hansen Scholarship in Pharmacy:**  
Stacy Senske

**Gerrit Heida Memorial Scholarship:**  
Kacy Magnus

**Bernard E. Hietbrink Scholarship:**  
Ellie Hendricks

**Lloyd D. Highley Scholarship:**  
Cody Baker

**Nancy and Seth Hildebrand Scholarship in Support of the Jackrabbit Guarantee:**  
William Anderson

**Owen "Woody" and Connie Hillberg Scholarship:**  
Amber Olson

**Hoch Drug Scholarship in Pharmacy:**  
Joseph Berendse  
Nicole Buchele  
Tamara Giese  
Mackenzie Klinkhammer  
Michael Meier  
Courtney Neubert

Lea Telkamp  
Collin Townsend  
Brittanie Venard  
Travis Van Ede  
Zachary Williams

**Ted and Bill Hustead Memorial Scholarship:**  
Nicholas Goodhope

**Kathleen Ingalls Scholarship in Support of the Jackrabbit Guarantee:**  
Natalie Beiter

**Bruce R. Johnson Scholarship in Support of the Jackrabbit Guarantee:**  
Nicole Heeren

**Julie Hanlon-Johnson and Matthew Johnson Scholarship in Support of the Jackrabbit Guarantee:**  
Samantha Wagner

**Randy L. Jones Scholarship in Support of the Jackrabbit Guarantee:**  
Rebecca Brust

**Galen D. Jordre and Ann M. Jordre Scholarship in Support of the Jackrabbit Guarantee:**  
Jason Schneider

**The Juhnke Pharmacy Scholarship:**  
Lauren Dartois

**Kmart Scholarship for Excellence in Community Pharmacy:**  
Danielle Bruscher

**Duwayne and Joan Knauf Pharmacy Scholarship:**  
Hubert Lahr

**Cheri A. Kraemer Scholarship in Support of the Jackrabbit Guarantee:**  
Stephanie Hanson

**J. Howard Kramer Scholarship in Pharmacy:**  
Leah Eckstein

**Susan Lahr and Gordon Niva Scholarship in Pharmacy:**  
Anna Delzer  
Dylan Stoeber



**Terry Larvie Scholarship:**  
Cody Maxwell

**J. Bruce and Kandi Laughrey Scholarship in Pharmacy:**  
Amanda Felten  
Ryan Verschelde

**Floyd LeBlanc Scholarship:**  
Leah Eckstein

**Harry M. Lee Scholarship:**  
Traci Eilers

**Larry Leighton Memorial Scholarship:**  
Jacqueline Adams

**Donald M. Lien Scholarship:**  
Kayla Streit

**Edgar and Gladys Light Scholarship in Pharmacy:**  
Hannah Hepper

**Brian G. and Christine A. Lounsbury Scholarship:**  
Sara Wettergreen

**Robert J. Manning Scholarship in Pharmacy:**  
Kaitlin Bottelberghe

**Barry and Sharon Markl Scholarship in Support of the Jackrabbit Guarantee:**  
Ryan Carlson

**Medicine Shoppe (SDSU Pharmacy Alumni) Scholarship:**  
Jessica Harris

**Barry Duane Mellegard Memorial Scholarship in Pharmacy:**  
McKenzie Bruer

**Glenn C. Miiller Memorial Scholarship:**  
Chance Wachholtz

**National Association of Chain Drug Stores Foundation Pharmacy Partners Scholarship:**  
Angela Schultz

**Carney Nelson and Margaret (Maggie) Nelson Memorial Scholarship:**  
Brad Rotert

**Robert W. and Ardith G. Olson Scholarship in Pharmacy:**  
Leah Eckstein

**Kay Coffield Pearson Scholarship in Pharmacy:**  
Amanda Johnson

**Mark Eric Petersen Scholarship:**  
Mindy Lucklum

**Alford O. and Dolores J. Peterson Endowed Scholarship:**  
Cynthia Bartha

**Allen A. Pfeifle Scholarship in Pharmacy:**  
Bretton Young

**Pharmacists Mutual Companies Award:**  
Nick Buschette

**Pharmacists Mutual Companies Scholarship:**  
Mollie Sloat

**Kenneth and Elizabeth Redman Scholarship:**  
McKenzie Bruer

**William J. Regan Scholarship:**  
Haylee Brodersen  
Zachary Wagner

**Vincent and Patricia Reilly Scholarship in Support of the Jackrabbit Guarantee:**  
Kelsey Eneboe

**Dr. Larry A. and Gretchen Ritter Scholarship in Pharmacy:**  
Jessica Wahl

**Sanford Pharmacy Faculty Scholarship in Support of the Jackrabbit Guarantee:**  
Nicholas Young

**Stanford D. Schmiedt Memorial Scholarship in Pharmacy:**  
Chance Wachholtz

**Craig and Carolyn Schnell Scholarship in Support of the Jackrabbit Guarantee:**  
Kiley Hyland

**Sioux Falls VA Practice Site Scholarship:**  
Joseph Berendse

**Jane and Norbert Sebade Scholarship:**  
Patrick Novak

**Chuck and Dorie Sendelbach Scholarship in Support of the Jackrabbit Guarantee:**  
Emily Rogers

**Earl and Daphne Serles Memorial Scholarships:**  
Mackenzie Byron

**Shopko Scholarship:**  
Luke Klugherz

**Ephraim “Ep” and Hilda Sieler and Beth R. and Justin Joachim Scholarship in Support of the Jackrabbit Guarantee:**  
Shannon Holler

**Dwight and Keo Smith Scholarship:**  
Hubert Lahr

**Richard A. Smith Scholarship in Pharmacy in Support of the Jackrabbit Guarantee:**  
Andrew Thies

**Merlin J. Snyder Scholarship in Support of the Jackrabbit Guarantee:**  
Kaitlyn Kruse  
Anthony Wacholz

**South Dakota Pharmacists Association Pharmacy Legacy Scholarship:**  
Ashley Potter

**South Dakota Society of Health-System Pharmacists Scholarship:**  
Kirre Wold

**Don C. Stark Scholarship in Support of the Jackrabbit Guarantee:**  
Kristen Dierks  
Heather Nelson

**Statz Family Pharmacy Scholarship at South Dakota State:**  
Cassie Heisinger

**Lowell T. Sterler Northwest Iowa Pharmacy Scholarship:**  
Rachel Hansen

**Julie C. Stevens, M.D. Scholarship in Pharmacy at SDSU:**  
Ashley Losing  
April Pottebaum

**Edward F. Swanson Scholarship in Support of the Jackrabbit Guarantee:**  
Rose Fitzgerald

**Medor A. and Florence M. Thibodeau Memorial Scholarship:**  
Sarah Ahmndt

**Mary and David Tidwell Scholarship in Pharmacy:**  
Levi Hattervig

**Van Hove Family Scholarship:**  
Alicia Christensen

**Visions for The Future Scholarship:**  
Pooja Patel

**Walmart Pharmacy Scholarship Award:**  
Jessica Fridley  
Eric Mathiowetz  
Adrienna Rasche

**Watertown District (SDPHA) Scholarship:**  
Kirsten Johnson

**Women’s International Pharmacy Award:**  
Rachel Pavelko

**Special Scholarship Walgreens Diversity Scholarship:**  
Ashley Martin

**Walgreens Diversity & Inclusion Excellence Award:**  
Colleen O’Connell



## Department of Pharmacy Practice



Greetings from the Department of Pharmacy Practice! I am pleased to update you with what has been happening in the department over this past fall semester.

Related to faculty news, Rachel Elsey joined us in August and has established her ambulatory care oncology practice at the Avera Cancer Institute. She has been a wonderful addition to our outstanding faculty. Surachat Ngorsuraches will be joining our faculty in May after he finishes up his responsibilities in his current position. Ngorsuraches has expertise in the area of social and pharmacy administration, which fills a specific need

within our department. I look forward to him joining the College of Pharmacy soon.

For other vacancies, we have had numerous interviews of candidates and have been making good progress in filling the remaining vacancies. We are also recruiting for a faculty position that will increase our department expertise in the area of community pharmacy practice. Recruitment continues to be productive, and I am certain that we will have vacancies filled very soon. We had faculty resignations from Tasha Rausch and Randi Sayles for which we are actively recruiting as well. I wish them well as they embark on other endeavors.

In the area of instruction, the faculty has been making great use of our new technologies. An example is utilizing our high-fidelity simulation mannequin in both Brookings and Sioux Falls. Students are able to experience firsthand the therapeutic effects of medications that are administered to the mannequin in treating medical conditions. The initial student responses and feedback to incorporating simulation in our didactic teaching has been very positive and our plan is to increase utilization of the simulation mannequin in our pharmacy courses going forward. Additionally, the interprofessional education efforts by faculty have continued to be very successful as well. We continue to evolve in the area of interprofessional education by partnering with a variety of other health care professions, which has led to high-quality learning experiences for the students.

We have had continued success with our community pharmacy residency programming. Both locations—Liebe Healthmart, in Milbank, and Hartford Pharmacy, in Hartford—have been providing valuable opportunities

for our two residents to continue to learn and gain valuable experience. We are gaining even more momentum with these programs and look forward to continued success as we move forward and grow. As part of the delivery of residency program training, we will have an accreditation visit for our community pharmacy residencies June 11-12. We are confident that our program will be successful in the accreditation process.

We also have seen continued success with the teaching certificate program that we offer to pharmacy practice residents in the state. All pharmacy residents in the state have signed up to participate in the program. This program provides participants with valuable knowledge and tools to help them become stronger educators and preceptors.

Due to the success we have had in rolling out the teaching certificate program, we are piloting an addition to the program. We have two of our Advanced Pharmacy Practice Experience preceptors participating in the teaching certificate program. We will be evaluating how the pilot for these preceptors goes and, based on that, will make decisions about the possibility of offering this programming to interested experiential preceptors. This aligns well with our departmental goal to increase the level of preceptor education we are providing our IPPE preceptors and APPE preceptors. We are also working on some additional programming to provide to our experiential preceptors in the very near future, which we will communicate to everyone once it becomes more fully developed. We appreciate the significant contributions from our experiential preceptors and value their help and support.

The fall semester went incredibly quick, and the students and faculty have worked very hard. We have accomplished a lot as a department, and I look forward to a productive spring semester.

*James Clem, Pharm.D.  
Department Head and Professor  
Department of Pharmacy Practice*



# Department of Pharmaceutical Sciences

The department had a leadership change this summer. Chandradhar Dwivedi, who led the department since 2003, retired after a distinguished service of 27 years at SDSU. I was appointed as the new department head in June 2013. This is my eighth year at SDSU, and I am honored to lead the department. I'm fortunate to have a very dedicated and talented team of faculty members, students and staff in the department. I'm pleased to present my first progress report as the department head.

## Program Updates

Our Pharm.D graduates achieved 100 percent pass rate on the national board exam and scores relating to the department courses were above the national average. The P2 Pharm.D. student performance on the Pharmacy Curriculum Outcome Assessment (PCOA) examination was similar to or above the national average for most department content areas. Two graduate students successfully defended their Ph.D. dissertations and four new students joined the Ph.D. program. Fahd Emam Eisa, a visiting scholar from Egypt, recently joined the department. Monzurul Roni received the College of Pharmacy Graduate Student of the Year Award. He is a graduate student working in Shafiqur Rahman's research group. The student chapter of the American Association of Pharmaceutical Scientists organized the Life Sciences Research Symposium in Deadwood this summer. The two-day symposium was attended by graduate students and department faculty. The new strategic plan, Impact 2018, went into effect in fall 2013. Consistent with the College of Pharmacy's strategic plan, the department is in the process of prioritizing its goals and initiatives for implementation.

## Research Updates

Rahman, Jin, Zhang, Tummala and Seefeldt received Scholarly Excellence Funds from the SDSU Office of Academic Affairs. We have been very active over the last six months, submitting approximately 20 grant applications for funding to state, federal and private funding agencies.

The Translational Cancer Research Center received a fifth and final year of funding from the state. The center continues to make significant progress in terms of grant application submissions, publications and patent applications. Seven new patent applications have been filed from my group as well as Hemachand Tummala, Hongwei Zhang and Xiangming Guan's research group. Drug/vaccine delivery technologies have been licensed to Brookings-based start-up companies. We have published 15 papers and presented more than 20 posters at various national meetings.

## Other activities

Undergraduate and graduate students presented posters at the 23rd Annual Keo Glidden Smith Convocation and Pharmacy Research Presentations in October. The department's faculty and graduate students also participated and presented research posters in the annual SDSU-Avera symposium held in Brookings. I also participated as one of the panel members at discussing technology transfer in the symposium.

The first-ever SDSU-Sanford Biomedical research symposium was held at Sanford Research in Sioux Falls and our department had a strong representation by faculty and graduate/undergraduate students. Tummala was one of the symposium's speakers.

The department's faculty and graduate students attended several other national/state meetings including: annual meetings for the American Association of Colleges of Pharmacy, American Association of Pharmaceutical Scientists, Controlled Release Society, American Heart Association, American Chemical Society, Society for Neuroscience, National Small Business Innovation Research Conference and the South Dakota Biotechnology Conference.

The department's faculty members have also established several new collaborations with researchers at other institutions including: Johns Hopkins University, Mayo Clinic, University of Colorado, Sanford Research, Avera Research and the University of South Dakota. Also, faculty have served on several grant review panels including: National Institutes of Health, Department of Defense, American Heart Foundation, New Investigator Research Program of American Association of Colleges of Pharmacy, American Association for Advancement of Science and Alzheimer's Research Foundation. Additionally, graduate student Kaushalkumar Dave chaired a workshop at the Annual Controlled Release meeting and was a speaker in the AAPS/AACP joint session on the "Future of Graduate Education" at the annual meeting of the American Association of Pharmaceutical Scientists.

I sincerely appreciate the support and contributions of the faculty, students and support staff. I would like to extend my appreciation to Dean Dennis Hedge and James Clem, department head of Pharmacy Practice, for their continued support. The new decentralized budget model transition will create opportunities to maximize resources and develop new initiatives through strategic collaborations and partnerships. To this end, the department will continue to build on its strengths, prioritize its needs and develop partnerships through the support of all stakeholders.

Best wishes for a happy and productive 2014.



*Om Perumal, Ph.D.  
Department Head and Associate Professor  
Department of Pharmaceutical Sciences*



# Assessment report



## The Curriculum and CAPE

Future practitioners are prepared to enter pharmacy practice through learning experiences in the classrooms, labs and experiential sites following the plan laid out in the curriculum. While this may seem like a simple process, it hinges on knowing what services a pharmacist needs to provide to ensure the safe and proper use

of medications; and what skills, attitudes and knowledge a pharmacist will need in order to execute this service. These functions and attributes must be true not only for today but also for at least the next seven to 10 years from when a student starts the program.

While it is a daunting challenge to create a set of outcomes that can fully encapsulate all of these aspects in an ever-changing health system, the American Association of Colleges of Pharmacy (AACP) has utilized the Center for the Advancement of Pharmacy Education (CAPE) for this purpose. CAPE outcomes were first published in 1992 and subsequently revised three times with the most recent revision released in July 2013. The 2013 CAPE outcomes were created by a panel of 16 members representing AACP (seven members and a liaison) and the Joint Commission of Pharmacy Practitioners (eight members from organizations

such as the Accreditation Council for Pharmacy Education to the National Community Pharmacists Association). This panel also sought input from other health professions and focus groups as they designed the outcomes necessary for current and future practice.

The CAPE 2013 Outcomes contain four domains (Foundational Knowledge, Essentials for Practice and Care, Approach to Practice and Care, and Personal and Professional Development) which are further divided into 15 subdomains (see table below left). While many of the outcomes were present in the previous version (CAPE 2004), new aspects include educator, advocate and innovator. The work of the College of Pharmacy will be to ensure adequacy of our current curriculum given these new aspects and revise our outcomes to better reflect the thought leaders' focus. Work in the College of Pharmacy has begun with a crosswalk of our current outcomes to the CAPE outcomes and will continue with a workshop to facilitate outcome revision in January. Following revision of our outcomes, the curriculum will be mapped to ensure inclusion of all aspects, and the assessment plan will be revised to examine students' achievement of the new outcomes.

We welcome the direction provided by national thought leaders in the form of the CAPE Educational Outcomes 2013, as we strive to create the most up-to-date, effective curriculum possible.

### Reference:

Median MS, Plaza CM, Stowe CD et al. Center for the advancement of pharmacy education 2013 educational outcomes. American Journal of Pharmaceutical Education 2013;77(8) Article 162.

Jane R. Mort

Associate Dean for Academic Programs

## CAPE Outcomes 2013

### Domain 1 – Foundational Knowledge

#### 1.1. Learner (Learner)

### Domain 2 – Essentials for Practice and Care

- 2.1. Patient-centered care (Caregiver)
- 2.2. Medication use systems management (Manager)
- 2.3. Health and wellness (Promoter)
- 2.4. Population-based care (Provider)

### Domain 3 – Approach to Practice and Care

- 3.1. Problem solving (Problem Solver)
- 3.2. Educator (Educator)
- 3.3. Patient advocacy (Advocate)
- 3.4. Interprofessional collaboration (Collaborator)
- 3.5. Cultural sensitivity (Includer)
- 3.6. Communication (Communicator)

### Domain 4 – Personal and Professional Development

- 4.1. Self-awareness (Self-aware)
- 4.2. Leadership (Leader)
- 4.3. Innovation and entrepreneurship (Innovator)
- 4.4. Professionalism (Professional)

## NEW FACULTY



### Rachel Elsey

Rachel Elsey is an assistant professor of pharmacy practice for the College of Pharmacy.

Elsey primarily teaches oncology therapeutics topics, and P4 students during their ambulatory care advanced pharmacy practice experiences. She also works at the Avera Cancer Institute for Avera McKennan Hospital and

University Health Center as a clinical pharmacist. Elsey is originally from Bettendorf, Iowa, and graduated from the University of Iowa in 2011. She currently resides in Sioux Falls.

"I really enjoy the people whom I work with here at SDSU," said Elsey. Prior to teaching at SDSU, Elsey completed a PGY-1 pharmacy residency and PGY-2 oncology residency at the UAB Hospital, and while she enjoyed Birmingham, Ala., she is pleased to be back in the Midwest.



### Amy Heiberger

Amy Heiberger is an assistant professor of pharmacy practice for the College of Pharmacy. She primarily teaches P3 therapeutics and is a preceptor for P4 Advanced Pharmacy Practice Experiences in the area of pediatrics. "I look forward to sharing my passion for pharmacy with SDSU students through

both classroom and rotation learning experiences," said Heiberger.

Heiberger also works as a clinical pharmacist for the Sanford Children's Hospital in Sioux Falls. Originally from Woonsocket, Heiberger graduated from the SDSU College of Pharmacy in 2006. She lives in Sioux Falls with her husband, Mike, and their two children, Stella and Rowan.



# Bergman

rises as educator, researcher in Illinois

Scott Bergman has certainly come far in his young life. When retirement comes, his vitae will surely be full.

Bergman earned a bachelor's degree in pharmaceutical sciences in 2004 and a pharmacy doctorate in 2006 from SDSU. He completed postgraduate residencies in pharmacy practice and infectious diseases pharmacotherapy at West Virginia University Hospitals and School of Pharmacy.

Bergman, a native of Slayton, Minn., took a faculty position at Southern Illinois University Edwardsville School of Pharmacy in 2006 and has been there ever since. His reason for going there was simple:

"It was a brand-new school of pharmacy at the time, and it reminded me a lot of SDSU because of its small class size with a focus on teaching and patient care in a rural area."

Bergman's impact at the school was soon felt. He began coordinating the required integrated pharmacotherapeutics-infectious diseases course, and he developed his own advanced infectious diseases pharmacotherapy elective. He also precepts students in their final year on advanced pharmacy practice experience rotations.

In September 2013, the Illinois Council of Health-Systems Pharmacists recognized Bergman with the New Practitioner Leadership Award. He was eligible for the award having been out of school less than 10 years.

"I was honored and surprised," he said. "Even though I feel like I've been here for a while, it's nice to see anyone from the school recognized for their efforts. We all act as a team and I think everyone takes pride in the school's accomplishments."

Bergman has the distinction of being the school's first faculty member to have a practice site at the Southern Illinois University School of Medicine in Springfield, which is about an hour's drive from Edwardsville.

He performs clinical and translational science research there, many times with students and residents. In fact, he received a grant from the Society of Infectious Diseases

Pharmacists last year to start his own infectious diseases pharmacy residency.

Bergman also received a grant from SIUE for laboratory research studying combination therapies for bone and joint infections. The research was presented last year in San Francisco at the Interscience Conference on Antimicrobial Agent Chemotherapy.

Prior to the leadership award, Bergman received the Excellence in Innovation Award from the Illinois Pharmacists Association. It was for his role in enhancing the pharmacist immunization education program in the state, coordinating research on community pharmacy-based influenza testing and developing the international travel clinic as a pharmacy student learning opportunity.

Bergman has had an interest in infectious diseases since he was a young boy, but didn't know jobs existed in specialized pharmacy fields until later in school.

"I credit Dr. Dennis Hedge (dean of the college) for really sparking my interest as a student," said Bergman, who likens treating infectious diseases to a puzzle because it needs to be solved by the health-care team with the patient, microorganisms and medication all having different pieces.

"Sometimes you have all the pieces to put that puzzle together, but oftentimes you don't," he said. "Physicians appreciate input from well-trained pharmacists because they help shed light on pharmacology pieces that medical school does not prepare them for."

Bergman has family tied to pharmacy. His wife, the former Jessie Warwick and a Sioux Falls native, is a clinical pharmacist at the Springfield Community Veterans Affairs Outpatient Clinic. They have two children: Allison, 4, and Evan, 1.

His older brother, Keith, is a 1998 pharmacy graduate from State. "I started learning more about pharmacy from him," recalled

Bergman, who also cites the influence of his former Boy Scout leader, Larry Hafner.

"He gave me a part-time job at his local drug store," he said. "That really solidified my path to a career in pharmacy."

*Kyle Johnson*





# Keo Glidden Smith

Class of '37 grad recalls pharmacy  
75 years ago

**B**eginning in tiny Philip, in west central South Dakota, to some of America's major metropolises, Keo Glidden Smith spent a full 50 years practicing the skills she learned at South Dakota State College.

The only surviving member of the College of Pharmacy's Class of 1937, Smith is the oldest surviving alum from the college.

At age 97, she now lives at Westhills Village Health Center in Rapid City. Smith practiced pharmacy from 1937 to 1987.

Smith was born and raised in Willow Lake, in Clark County, where she attended grade school and high school. Her mother was a teacher and her father owned and operated a drugstore, which served as her home away from home while growing up.

She enrolled at State as a general science major but was recruited into pharmacy by a family friend, Dean Earl Serles.

"I wanted to be a physical education instructor, but pharmacy was also sort of in my mind. I kind of grew up that way," Smith said in a November telephone interview. "My father hired a couple lady pharmacists over the years and I was impressed. So it was just natural to become a pharmacist."

She also was influenced by her uncle, J.O. Foote, a pharmacist, who, like Serles, hailed from Yale, S.D.

As a youngster, she recalls working at the soda fountain and selling penny candy and fireworks at her father's drug store.

## Active at State

As a college student, Smith was involved in many activities, including Women's Athletic Association, Women's Self-Government Association and Sigma Lambda Sigma, an honorary senior women's fraternity in which she was treasurer and Norma Royer was historian.

She and Royer, of Huron, were the only females in the 10-member class.

Smith also was president of Rho Chi, a national pharmaceutical honor society. One of its activities was entering a float in the Hobo Day parade.

But the floats that were best associated with pharmacy came from the Pharmaceutical Society, to which all pharmacy majors belonged. Each year the society's entry was named "most beautiful." In 1936, the society won for the seventh year. "We used to spend a lot of time making our Hobo Day float ... They really went to a lot of work on them," she recalls.

## Still supporting Rho Chi

Rho Chi's primary purpose, according to the 1937 yearbook, was to "promote pharmaceutical research and professional science and to foster good fellowship."

That mission hasn't changed, and it is partially fulfilled by Rho Chi organizing and running a fall and spring convocation during which students give research poster presentations and listen to a guest speaker.

Since 1989, those convocations have been underwritten through an endowment created by Keo Glidden Smith.

She said she looks back on her career without regrets.

## Career centered in Chicago

After graduating in 1937, Smith spent a year each in Phillip and Madison, and then returned to help her ailing father at his drug store. She married Dwight Smith, a 1934 engineering graduate from Raymond, on Sept. 1, 1940, in Willow Lake. His work in mechanical and electrical engineering took them to Kansas City; Akron, Ohio; Phoenixville, Pa.; New Orleans; and River Forest, Ill.

Their last and longest location was near Chicago, living in suburban River Forest for 18 years. During that time, Smith practiced her profession at the Research and Education Hospital, which was affiliated with the University of Illinois.

In 1964, they retired and returned to South Dakota, dividing their summers between their home in the Black Hills and their cottage at Lake Kampeska in Watertown. Winters were spent in Arizona, Texas and Florida.

In 1974, the Smiths moved to a new home west of Rapid City. Keo continued to keep her hand in her profession as a relief pharmacist in Rapid City until 1987.

Dwight Smith died in 1989. Ten years later, Keo moved into the Westhills Village Senior Citizens Center in Rapid City.

## Enjoyed work of compounding

She says she has been blessed with good health and a sound mind, is thankful she can have a role in educating today's pharmacy students, and "loved" her career in pharmacy.

But today's students won't be able to experience all that Smith did.

"It was more fun when we did compounding ourselves. Doctors prescribed powders and tinctures. Everything wasn't factory made," she recalled.

*Dave Graves*





# Distinguished Alumnus

## Sterler has worked in all phases of pharmaceutical industry

Noticing a change in payment methods used by his customers, Lowell Sterler had an idea. Seeing that his customers were using insurance cards to pay for prescriptions, Sterler wanted to know how to do more with that information.

His idea, to learn how to apply the captured claims information to benefit one's care, would take him away from managing a small-town pharmacy to not only other cities but also different careers in the pharmaceutical field.

"I figured all this data could be analyzed to explore for clinical indicators, drug interactions, adherence and other key drug-utilization components," Sterler said. "This led to the development of comprehensive clinical programs and formulary management tools."

That quest has led Sterler, a 1974 SDSU grad, to all phases in the pharmaceutical industry. His mark on the industry has been noted by national organizations and recently by the College of Pharmacy as its 2013 Distinguished Alumnus. It is one of several honors for Sterler, who was named an SDSU Distinguished Alumnus for Professional Achievement in 2007.

"SDSU gave me the fundamental knowledge, skills and confidence to pursue a unique pharmacy career marked by adventure, fulfillment and creativity," said Sterler. "Faculty were outstanding across the many disciplines required to obtain my pharmacy degree. Then, as now, students who are drawn to SDSU reflect a high work ethic, appreciation for excellence and zest for life. The pioneer spirit enabled me to actually become one in managed-care pharmacy."

After six years managing a pharmacy in Milford, Iowa, Sterler became a director of pharmacy for HPI. While in that role, he

trained pharmacy technicians and pharmacists and established institutional pharmacies nationally. That entrepreneurial spirit caused Sterler to pursue an MBA and take a position as the associate director of pharmacy at the then-St. Paul (Minn.) Ramsey Medical Center.

He then entered the pharmacy benefit management field and became the director of pharmacy operations for Partners National Health Plans. Sterler and seven others would leave that firm to create Clinical Pharmacy Advantage, a firm that would become the nation's fourth-largest pharmacy benefit manager in only two years. As a result, it drew the attention of larger firms and was purchased by McKesson, which owned PCS Health Systems.

After creating another PBM that was eventually purchased, Sterler returned to PCS before taking a position with Blue Cross Blue Shield of Florida. In 2010, Sterler started work with Shire, a midsize pharmaceutical company, which gave him positions in all phases of the pharmaceutical world. He is currently the senior director of Global Market Access. He also serves as the president of Absolute Rx Strategies LLC.



In 1997-98, Sterler served as president of the Academy of Managed Care Pharmacy (AMCP) and served on its board of directors from 1994 to 2000. He was recently named the recipient of the Steven G. Avey Award for Lifetime Achievement in Managed Care Pharmacy by the AMCP Foundation.

He has also represented AMCP before the U.S. Food and Drug Administration and the Centers for Disease Control and Prevention and has participated in various White House summits.

Like his career, Sterler has seen the College of Pharmacy and SDSU undergo many changes.

"In addition to its world-class faculty, SDSU now has sophisticated labs and classrooms and an architecturally stunning campus," he said. "I could not be more proud to be an SDSU alumnus."



Top: Sterler and his wife, Susan, when he was awarded the Steve G. Avey Award by the AMCP.

Right: Sterler, middle, is shown in 1975 receiving a birthday cake from members of the Milford, Iowa, Kiwanis club. On Sterler's left is Jim Murray, owner of Murray Drug. Murray was Sterler's first employer in the pharmaceutical industry and mentor.

# Harvey Mendez

After long pharmacy career, Mendez turns into successful author

After selling the last of his two pharmacy stores in 1979, Harvey Mendez took a couple years off, looking for something else to do besides playing basketball at the beach.

And so he put pencil to paper.

"I started at a writing class and just went from there," said Mendez, a 1956 SDSU pharmacy graduate who, after serving countless patients and customers, has been serving readers with equal success.

Born in Madison, Wis., in 1932, Mendez still maintains pharmacy licenses in South Dakota, Arkansas and California, where he currently lives with his wife, Ann, in Montclair.

Mendez, who once tried out for the SDSU basketball team, has had eight novels published and is now working on his ninth. He has published three poems, six short stories and two essays.

He co-authored the screenplay, "The Churchyard," about vampires and werewolves, with John Young, a fellow basketball buddy. He took it to three studios, but no one was interested.

"It was 1989, so maybe it was before its time," he said. "We shelved it, but John and I kept the title and now have changed it into a love story which I'm working on."

Mendez's most recent novel is "Vince and A.E.," a romantic and historical fiction book about Amelia Earhart and what might have happened to the famed aviator.

His novel, "Amelia" is a best seller and placed fourth in a national novel contest and was a finalist in the EPPIE 2003 contest. Another piece, "The Bear and the Bull," won first place in a national short story contest in 1986.

Clearly, Mendez's writings have been noticed by his peers. The next step is having them appear on the big screen—and he has been knocking on doors.

"I sent Ron Howard my 'Amelia' for a movie but he doesn't take unsolicited items," he said. "I just sent Kevin Costner my western, 'Jake Howard,' but don't know the outcome of that yet."

Good things happen to those who wait, something Mendez learned from "Amelia," a fictional account of what Earhart might have endured following her plane crash.

"It was published in 2002 after 22 years of writing and 53 rejections," he said. "Since then, more than 800 copies have been sold."

Since seeing the 1942 movie "Flight For Freedom" with Rosland Russell starring as Earhart, Mendez has been captivated by her and believes evidence will surface that will solve her mysterious disappearance.

"Amelia was such a fascinating woman," he said. "I saw every movie about her and read almost everything. In my books, I leave it up to the reader to decide what happened to her. I don't believe she was lost in the ocean. Maybe someday all the classified material on her will be released. A lot of people saw her as plain. I think she was beautiful."

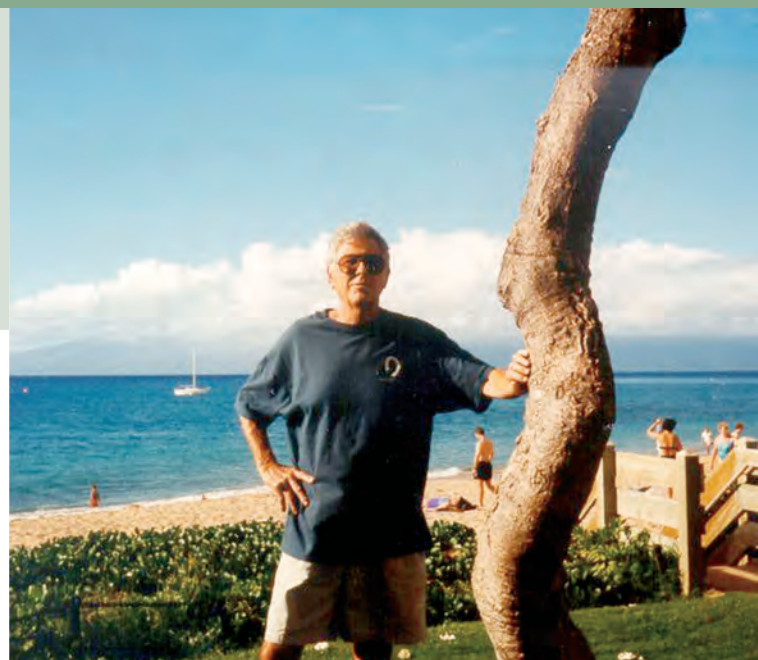
Mendez, who belongs to the Lagunita Writers Group in Laguna Beach, Claremont Writers Workshop in California and the Cherokee Village Writers Guild in Arkansas, knows the public would enjoy seeing his work come to life.

"All my books would make good movies because of the action, and I write visually," he said. "They would be easy to adapt."

Mendez has certainly come far in the writing world, recalling those "dumb stories I wrote in English class" at Chaffey High School in Ontario, Calif. "I didn't think much about it as a career. I just wanted to prepare for college and play sports."

However, down deep, he knew he could write when the time came and there's no lacking in self-confidence. "I just write what comes out ... don't think too much about it. After all, they are just words."

Words that can be traced to the beach, specifically Main Beach—a famous stretch of sand along the Pacific Ocean in Laguna Beach.



A cluster of basketball and volleyball courts dot Main Beach, where players from all over the United States come, including high school, college and professionals. Mendez was the "old man" at 36 when he first arrived on the scene.

"I'd go down there about 10 a.m. and sit and write longhand on my first novel, 'Amelia,' and other stories," he said, recalling that the game was four-on-four and when done he would write some more. "I had a chair as my office at the beach on the Boardwalk. I became a fixture there for 30 years."

Mendez's time in Brookings was a "struggle financially" due to the fact that he was married with two children. Working at Montgomery Ward initially for 75 cents per hour, the rate eventually grew to \$1.25.

"Thought I was rich," he said. "School was fairly easy. I just wanted to graduate and pass the pharmacy board exam."

Even though "it was hard making a living" while going to school, Mendez didn't stray far from the books, sporting a final GPA of 3.5.

Beginning his pharmacy career in Montclair, Mendez termed his education "a good one."

"It's a great pharmacy school, I really liked going there," he said. "I met some awesome teachers and friends. I have and would recommend the school to others for education."

*Kyle Johnson*



## Nominations requested for the Distinguished Pharmacy Alumnus Award

The College of Pharmacy Advisory Council requests nominations for the Distinguished Pharmacy Alumnus Award. This award recognizes a graduate of the SDSU College of Pharmacy who has served and advanced the profession of pharmacy and has been involved in community service.

The Advisory Council requests nominations come from a colleague in the profession and include the following:

1. A brief cover letter explaining the nominee's contributions to the profession of pharmacy (past and continuing) and ways the individual has shown a commitment to the profession and the community.
2. A brief biographical sketch (resume or curriculum vitae would be helpful).
3. An additional letter of support from a colleague or a member of the community.

Send materials to: Dan Hansen, SDSU College of Pharmacy, Box 2202C, Brookings, SD 57007-0099; or by email at dan.hansen@sdstate.edu. The annual deadline for submitting nominations is March 1, 2014. The College of Pharmacy Advisory Council will select an award winner from the nominees based on the above criteria.

The award will be presented at the annual College of Pharmacy Scholarship Luncheon. Nominees not selected for the award are still eligible for three years following the nomination.

## SDSU grads honored at pharmacy convention

SDSU graduates received three of the major awards at the South Dakota Pharmacists Association convention Sept. 13-14 in Sioux Falls.

- Husted Award for career accomplishments—Randy Jones '87, executive director of the South Dakota Board of Pharmacy since 2011.

After graduation he became a senior pharmacist with Shopko in Sioux Falls, eventually becoming chief pharmacist. He then joined PCA as a pharmacy manager and geriatric consultant. Jones then was chief pharmacist and clinical director for AmeriPharm.

He became an inspector with the Board of Pharmacy in 2008.

- Bowl of Hygieia Award for outstanding civic leadership—Ann Cruse '89.

Cruse, a pharmacist with Lewis Drug in Huron, is involved with activities at Mt. Calvary Lutheran Church, Lutheran Women's Missionary League, Huron Soccer Association, Huron Music Association and the We Found Sound show choir as well as volunteering with the Backpack Program and Lutheran Social Services.

- Distinguished Young Pharmacist—Travis Anderberg '04.

He owns Miller Rexall Drug and provides consultant pharmacy services for Avera Hand County Hospital, Miller Good Samaritan Center and the Courtyard Villa Assisted Living. In 2011, he received the Distinguished Service Award for Healthcare for his dedication in providing health services to people with developmental disabilities.

## Chapter honored for work at diabetes management event

The SDSU chapter of the Academy of Student Pharmacists received the Region 5 Operation Diabetes award from the American Pharmacists Association in fall 2013.

The chapter was recognized for an interprofessional diabetes education event in spring 2013. The event focused on unique aspects of diabetes management in Native Americans and included pharmacy, nursing and dietetics students.

The chapter's adviser is Associate Professor Teresa Seefeldt.

## Calendar of Events 2014

<b>Jan. 28-29</b>	Legislative Days
<b>March 28-31</b>	American Pharmaceutical Association/Academy of Student Pharmacists Annual Meeting – Orlando, Fla.
<b>April 4-5</b>	Kappa Psi conclave – Omaha, Neb.
<b>April 9</b>	Spring Convocation – SDSU Student Union
<b>April 9</b>	College Achievement and Recognition Program – SDSU Student Union
<b>April 11-12</b>	South Dakota Society of Health-System Pharmacists Annual Meeting – Sioux Falls
<b>April 25</b>	White Coat Ceremony – SDSU Student Union
<b>May 9</b>	Hooding Ceremony – SDSU Performing Arts Center
<b>May 10</b>	Graduation



### In memoriam Joye Ann Billow

Joye Ann Billow, a member of the SDSU faculty from 1972 to 2002, died Dec. 6, 2013, at Dougherty Hospice House in Sioux Falls after a brief battle with cancer.

Billow, 70, of Brookings, joined the College of Pharmacy after earning her doctorate in medicinal chemistry from Temple University in 1972.

At SDSU, she was faculty adviser to Kappa Epsilon fraternity for women. During her 29-year tenure in that position she won the Outstanding Advisor Award and the Career Achievement Award. She also guided the fraternity to become Outstanding Collegian KE Chapter for 2002-2003.

Billow also was chair and vice chair of the SDSU Academic Senate.

She was recognized for her career accomplishments by being named an SDSU Woman of Distinction in her retirement year—2002.

The SDSU Foundation called upon her to join its Women and Giving program, a group that provides opportunities for women on and off campus. She has also endowed a women's leadership award for Kappa Epsilon members that bears her name.

Billow is survived by several cousins in Pennsylvania, where she was raised.

Visitation was Dec. 13 at Eidsness Funeral Home. Burial of the ashes was at Woodlawn Memorial Gardens in Harrisburg, Penn. Friends may share memories of Billow through [www.eidsnessfuneralhome.com](http://www.eidsnessfuneralhome.com).

Donations can be sent to the SDSU Foundation in the name of the Joye Ann Billow Women's Leadership Award for Kappa Epsilon.

# Thank you 1-1-12 through 10-31-13

Dean's club membership consists of alumni and friends who have contributed \$500 or more annually to the College of Pharmacy. Dean's Club members are recognized as devoted friends of the college who make significant impact on the college's future.

Member names will be listed in the SDSU Honor Roll and the college newsletters. They also will receive invitations to special college and university functions, updates from the college dean, and an SDSU Dean's Club car decal.

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Drew T. and Margaret A. Anderson  
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Bill P. Bernhard  
Joye Ann Billow  
Darrel C. and Peggy Bjornson  
Black Hills District Pharmacist Association  
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## "Your generosity is shaping our future"

**T**hank you for your support of the College of Pharmacy. Your past investment has made a huge impact on our teaching, research and service. Through your generosity, we are nationally recognized for excellence in patient-centered and population-based pharmacy preparation.

As proud as we are of our tradition, we are energized by the tremendous opportunities that lie in front of us. We are currently charting a dynamic course for our college. Our graduates will have a comprehensive collegiate experience that focuses on scholarship, engagement and leadership. We are garnering resources to support our faculty so they can be innovators in our classrooms and laboratories.

Moving forward, we understand there are going to be challenges. Providing an outstanding and affordable education for our students will require greater efficiency and more private-sector investment in higher education. There are many reasons we believe the best is yet to come in the College of Pharmacy. We are confident in our future because our students and faculty are making impactful contributions every day on our campus, within our state and

everywhere else they call home. We are confident because you (our alumni and friends) recognize that investing in our most talented young people and scholars has a great return ... improved quality of life.

We aspire to lead with purpose and champion the public good. Promoting academic excellence, generating new knowledge and expanding our collaborative relationships are strategic goals of ours. To achieve these goals we will need to expand relationships and enhance the resources available to the College of Pharmacy.

We know we have asked a lot of you in recent years, but your gifts have provided the margin of excellence at SDSU. Our immediate priorities are to increase scholarships, augment resources for faculty and maintain an infrastructure that facilitates quality and innovation.

We look forward to talking with you in 2014 to explore ways you can help shape our future. Once again, thank you for all you have done to make the SDSU College of Pharmacy great. Happy New Year!

*Keith Mahlum*  
Vice President for Development,  
SDSU Foundation



Keith Mahlum



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